

SCALABILITY, AVAILABILITY, AND MANAGEMENT FEATURES FOR BUSINESS COMMERCE SERVER

ABSTRACT OF THE DISCLOSURE

5 A distributed network configuration and associated method for providing certain
business objectives relating to scalability, availability, and manageability of the overall ACS
system. Scalability provides the ability to both scale-up on symmetric multi-processing
(SMP) machines and the ability to scale-out on clusters of machines. Availability relates to
the ability to transparently fail-over user sessions on a given cluster node to a backup cluster
10 if that node fails. Each object pertaining to an application will be given a logical reference.
For each new update of a state, the associated logical references will be retrieved and
serialized into a session object that gets sent to the backup server. Manageability provides
the ability to add or drop nodes from the cluster without shutting down the service, or deploy
applications across all nodes of a cluster.